

## SYLLABUS

COURSE # AND TITLE: DHYG 229 Pharmacology # of CREDITS: 3 (3 + 0+ 0)

### CATALOG DESCRIPTION:

A study of the importance of the pharmacologic aspects of those drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects upon the body systems.

Semester Offered: Fall semester, 2<sup>nd</sup> year Dental Hygiene Program

Prerequisites: DHYG 111, 113, 114, 115, 217, ENGL 211 or 218 with a "C" or above.

Co-requisites DHYG 221, 223, 224, 227, and enrolled in or completed with a "C" or above SPCH 110 or 111.

### Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will..

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| Learn       | Students will actively and independently acquire, apply and adapt skills and knowledge to develop expertise and a broader understanding of the world as lifelong learners. |
| Think       | Students will think analytically and creatively to explore ideas, make connections, draw conclusions, and solve problems.  |
| Communicate | Students will exchange ideas and information with clarity and originality in multiple contexts.  |
| Integrate   | Students will demonstrate proficiency in the use of technologies in the broadest sense related to their field of study.  |
| Act         | Students will act purposefully, reflectively, and respectfully in diverse and complex environments.  |

### GENERAL LEARNING OBJECTIVES:

1. The student will identify the uses, actions, and contraindications of drugs commonly taken by patients as evidenced by a 70% or higher accuracy on learning assessments.
2. The student will describe the prevention of drug interaction, medical emergency intervention, oral manifestations associated with drug use, and implications of alcohol and drug abuse.

**SPECIFIC LEARNING OUTCOMES:**

Upon completion of this course the student will be able to:

1. Understand pharmacological terminology, list sources of drug information, and identify regulating agencies and rules related to pharmacy and prescription writing.
2. Describe general principles of pharmacology to include basic physiological and biochemical mechanisms through which different drug forms exert their actions.
3. Identify factors involved in the absorption, disposition, metabolism and excretion of drugs.
4. Discuss the therapeutic applications of drugs, including methods of administration, the effects of drugs altered by variables and drug interactions that alter drug effects clinically.
5. Identify actions of drugs which could alter dental treatment, discuss the systemic diseases which require their use, either directly or indirectly, and possible oral manifestations associated with drug use.
6. Explain adverse reactions, general methods of toxicity prevention, and medical emergencies that may occur in dental practice.
7. Describe the implications of alcohol and drug abuse to dental practice.
8. Apply the general principles of pharmacology to the use of various drugs used in dentistry.

Syllabus developed by: Susan Carl

Date: 11-09-04

Syllabus reviewed by: Paula Spaight

Date: 11-10-04